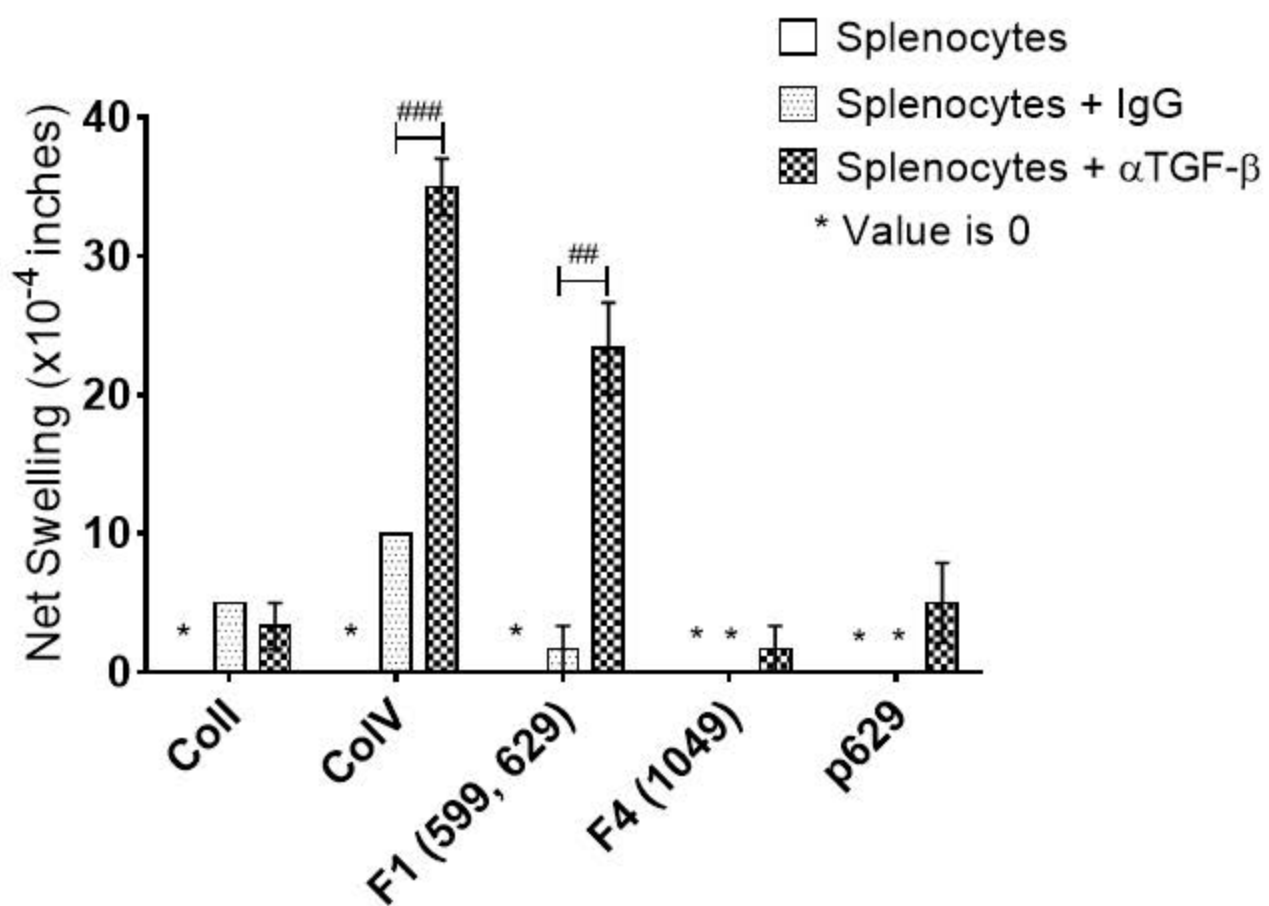
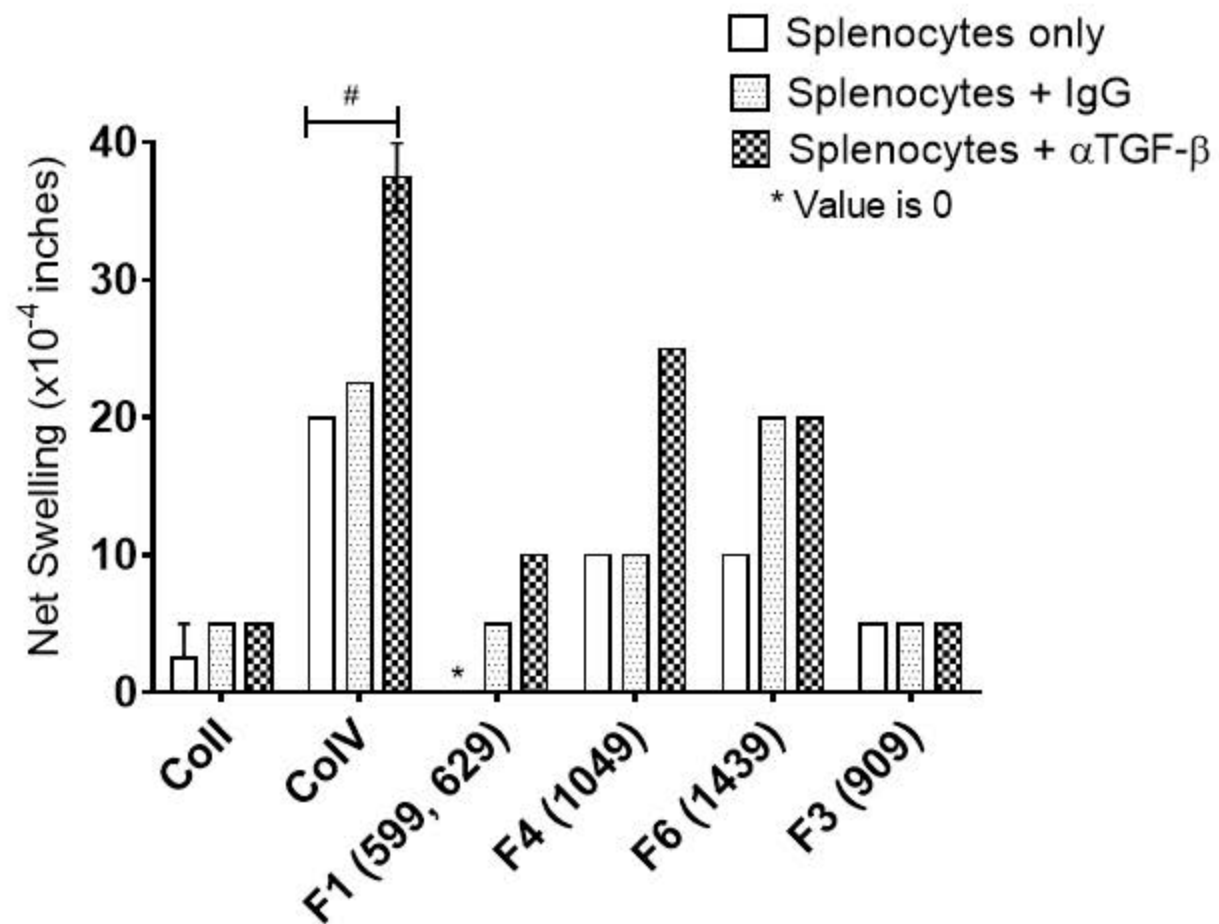


Supplemental Figure 1



A. In naïve A2/DR1 transgenic mice



B. In naïve DR15 transgenic mice

Figure S1: Natural responses to Col V in DR transgenic mice

DR-restricted natural responses to ColV were detected in A2/DR1 and DR15 transgenic mice.

Spleen cells from naïve DR1 and DR15 mice were tested for preexisting responses to ColV.

A. Splenocytes from DR1 transgenic mice (n=1-3, pooled) were tested for their reactivity to Col I, ColV and 2 Fragments of ColV (1 and 4). Neutralization of TGF- $\beta$ 1, but not the IgG isotype control, uncovered a response against ColV, but not Col I. A response was seen to Fragment 1, but not Fragment 4. No response was seen with splenocytes only. B. Spleen cells from DR15 transgenic mice (n=4-7, pooled) were tested for their natural ability to respond to Col I, ColV, and ColV fragments. A higher background response to ColV was noted in the spleen cells and with the IgG isotype control antibody. Neutralization of TGF- $\beta$ 1 further increased this response to ColV. Importantly, a response was seen against Fragment 4, but not Fragment 1 (Unpaired T tests ### p<0.0001, ## p=0.005, #<0.05).

## Supplemental Table

Table 1. Collagen Type V Fragments

Fragment	Peptide	Specificity
1	p599, p629	IAb, DR1
2	p799	DR1/15
3	p909	IAb
4	p1049	DR15
5	Negative	Negative
6	p1439	DR1/15